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, WHAT IS CLAIMED IS

for the/ Oligonucleotide identification of Staphylococci species having a nucleotide sequence comprising between 15 350 base pairs, and preferably between 17 and 250 base pairs, and which presents less than 50% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3,

2. Oligonucleotide according to claim 1 for the specific identification of staphylococci species having a nucleotide sequence comprising between 15 and 350 base pairs, preferably between 1/2 and 250 base pairs, and which 15 presents less than 40% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3.

3. Oligonucleotide according to claim 1 or 2 for the specific identification of Staphylococci species having a nucleotide sequence comprising between 15 and 350 base pairs, preferably between 17 and 250 base pairs, and which presents less than 30% homology with the "consensus" femA nucleotide sequence (CNS) of fig. 3,

4. Oligonucleotide according to any of the the specific identification of for 3 to claims a nucleotide sequence having species 25 Staphylococci comprising between 15 and 350 base pairs, preferably between 17 and 250 base pairs, and which presents less than 20% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3.

Oligonucleotide /according to claim 1, 5. being a primer which nucleotide sequence has between 15 and 45 base pairs, preferably between 17 and 25 base pairs.

6. Oligonucleoxide according to claim 5, is selected from the group consisting of the following nucleotide sequences :

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9 # 999+16662 68 67+ ^^-692507+7 78 88

BCN. VON: EPA, MUENCHEN, 96 : 20:41 : 0 -1 -61:

- ACAGCAGATGACATCATT
- TAATGAAAGAAATGTGCTTA
- ACACAACTTCAATTAGAAC
- **AGTATTAGCAAATGCGG**
- ATGCATATTTTCCGTAA
 - CAGCAGATGACATCATT
 - CATCTAAAGATATATTAAATGGA
 - AGTATTAGCAAATGCGGGTCAC
 - CAACACAACTTCAATTAGAA

oligonucleotides of Couple 7. specific amplification of Staphylococci species consisting of two different nucleotide sequences having between 15 and 45 base pairs, preferably between 17 and 25 base pairs, and which present more than 60% homology with the "consensus" 15 femA nucleotide sequence (CNS)/ of Fig. 3 or consisting of one nucleotide sequence having between 15 and 45 base pairs, preferably between 1/2 and 25 base pairs, and which presents more than 60% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3 and the oligonucleotide of claim 6.

8. Couple of oligonucleotides according to claim 7 for the specific amplification of Staphylococci species, consisting of two different nucleotide sequences having between 15 and 45 base pairs, preferably between 17 25 and 25 base pairs, /and which present more than 70% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3 or consisting of one nucleotide sequence having between 15 and /45 base pairs, preferably between 17 and 25 base pairs, and which presents more than 70% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3 and the oligonucleotide of claim 6.

9. Couple of oligonucleotides according to amplification the specific for claim different consisting of two species, Staphylogocci

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nucleotide sequences having between 15 and 45 base pairs, preferably between 17 and 25 base pairs, and/which present more than 80% homology with the "consensus" extstyle extstylesequence (CNS) of Fig. 3 or consisting of/one nucleotide 5 sequence having between 15 and 45 base pairs, preferably between 17 and 25 base pairs, and which presents more than 80% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3 and the oligonucleotide of claim 6.

10. Couple of oligonucleotides according to any one of the claims 7 to 9 for the specific amplification of Staphylococci species, consisting of two different nucleotide sequences having between 15 and 45 base pairs, preferably between 17 and 25 base pairs, and which present more than 90% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3 or consisting of one nucleotide 15 sequence having between 15 and 45 base pairs, preferably between 17 and 25 base pairs, and which presents more than 90% homology with the "consensus" femA nucleotide sequence (CNS) of Fig. 3 and the oligonucleotide of claim 6.

11. Couple of/ cligonucleotide according to any one of the claims 7 to 10, wherein the oligonucleotides having between 15 and 45 base pairs, preferably between 17 and 25 base pairs, and which present more than 60, 70, 80 or 90% homology with /the "consensus" femA nucleotide 25 sequence (CNS) of Fig. 3 are selected from the group consisting of the following nucleotide sequences:

ANAATGAANTTTACNAATTTNACNGCNANAGANTT TAATGAAGTTTACAAAATTT particularly more and TAATGAAGTTTACNAAATTT

ATGNCNNANAGNCAT/TTNACNCANA 30 and more particularly TGCCATATAGTCATTTACGC

- TAGTNOGNATNAANAANAANNATAANGANGTNATTGC
- GTNCCNGTNATGAAANTNTTNAANTANTTTTATTC
- AATGCNGGNNANGATTGG

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		and more particularly AAAAAGTYCAAAAAATGG and
		AAAAAGTACAAAAATGG
		AAGANGANNTNCCNATNTINNGNTCATTNATGGANGATAC
	5	TATATNNANTTTGATGANTA
	2	AANGANATNGANAAANGNCCNGANAANAAAA
		and more particularly AAAGATATTGAAAAACGA,
v \		AAAGATATTGAAAAGAGACC, AAAGATATCGAGAAAGAC and
Sub		AAAGACATCGACAAGCGT.
	10	ANCATGGNAANGAATTACCNAT
		and more particularly GAACATGGTAATGAATTAC
$\sqrt{2}$		AATCCNTNTGAAGTNGTNTANTANGCNGGTGG
		AGTCCNTNTGAAGTNGTNTANTAYGCNGGTGG AGNTATGCNNTNCAATGGNNNAZGATTAANTATGC
There are a series		AGNTATGCNNTNCAATGGNNAA GATTAANTATAAAAA TTTANNGANGANGCNGAAGATGNNGGNGTNNTNAANTTNAAAAA
		,
55 105 55 105 56 105	15	and more particularly TTTACTGAAGATGCTGAAGA
		GTTGGNGANTTNNTNAAACC
55; 1000 55;		and more particularly GTTGGTGACTTTATTAAACC
		ATGAAATTTACAGAGTTAA
		12. Oligonucleotide having between 15 and 45
	20	base pairs, preferably between 17 and 25 base pairs,
		which is selected from the group consisting of the
1.2		following nucleotide sequences/
		ANAATGAANTTTACNAATTTNACNGCNANAGANTT
$(\tilde{\mathbf{I}})$		and more particularly TAATGAAGTTTACAAAATTT or
	25	TAATGAAGTTTACNAAATTT
		ATGNCNNANAGNCATTTNACNCAYA
		and more particularly TGCCATATAGTCATTTACGC
		- TAGTNGGNATNAANAANAANNATAANGANGTNATTGC
		GINCONGINATGAAANINTINAANIANITITATIC

GNAANNGNAANACNAAAAAGTNNANAANAATGGNGTNAAAGT

AAAAAGTTCAAAAAATGG

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AATGCNGGNNANGATTGG

-	GNAANNGNAANACNAAAAAGTNNANAANAATGGNGTNAAAGT					
	and	more	particularly	AAAAAGTTCAAAAAATGG	and	
	AAAAA	GTACAAA	laatgg			

- AAGANGANNTNCCNATNTTNNGNTCATTNATGGANGATAC
- 5 TATATNNANTTTGATGANTA
 - AANGANATNGANAAAANGNCCNGANAANAAAAA
 and more particularly AAAGATATTGAAAAACGA,
 AAAGATATTGAAAAGAGACC, AAAGATATCGAGAAAGAC and
 AAAGACATCGACAAGCGT.
- 10 ANCATGGNAANGAATTACCNAT
 - AATCCNTNTGAAGTNGTNTANTANGCNGGTGG
 - AGNTATGCNNTNCAATGCNNNATGATTAANTATGC
 - TTTANNGANGANGCNCAAGATGNNGGNGTNNTNAANTTNAAAAA and more part; cularly TTTACTGAAGATGCTGAAGA
- 15 GTTGGNGANTTWNTNAAACC
 and more particularly GTTGGTGACTTTATTAAACC
 - ATGAAATTTACAGAGTTAA
 - 13. Identification and/or quantification method of a Staphylococci species, which may present resistance to antibiotics and which is present in a sample, said method comprising the steps of:
 - obtaining a nucleotide sequence from a Staphylococci species present in the sample,
- amplifying said nucleotide sequence with the couple of oligonucleotides according to any one of the claims 7 to 11, and
 - identifying and possibly quantifying the specific Staphylococci species:
- amplified the hybridi/sation οf reverse - by or one with sequenge nucleotide 30 oligonucleotide(s) /according to any one of the claims 1 to 6 which is (are) specific of said Staphylococci species and is (are) immobilised on a solid support or

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of Staphylococci species comprising the oligonucleotide or the couple of oligonucleotides according to any one of the preceding claims 1 to 11 and possibly all the media necessary for the identification of an amplified sequence of said Staphylococci species through any one of the methods selected from the group consisting of in situ hybridisation, hybridisation on a solid support, in solution on dot blot, Northern blot, Southern blot, probe hybridisation by the use of an isotopic or non-isotopic label, genetic amplification or a mixture thereof.

15. femA genetic sequence which presents more than 90% homology with a nucleotide or amino acid sequence selected from the group consisting of the sequence SEQ ID NO 40, SEQ ID NO 41, SEQ ID NO 42, SEQ ID NO 43, SEQ ID NO 44, SEQ ID NO 45, SEQ ID NO 46, SEQ ID NO 47, SEQ ID NO 48, SEQ ID NO 49, SEQ ID NO 50, SEQ ID NO 51, SEQ ID NO 52, SEQ

20 ID NO 53 and SEQ ID NO 54/

16. Genetic sequence according to claim 14, being the nucleotide sequence SEQ ID NO 40.

17. Genetic sequence according to claim 14, being the amino acid sequence SEQ ID NO 41.

18. Genetic sequence according to claim 14, being the nucleotide sequence SEQ ID NO 42.

19. Genetic sequence according to claim 14, being the amino acid sequence SEQ ID NO 43.

20. Genetic sequence according to claim 14,

30 being the nucleotide sequence SEQ ID NO 44.

21. Genetic sequence according to claim 14, being the amino acid sequence SEQ ID NO 45.

22. Genetic sequence according to claim 14, being the nucleotide sequence SEQ ID NO 46.

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23. Genetic sequence according to claim 14, being the amino acid sequence SEQ ID NO 47.

24. Genetic sequence according to claim 14, being the nucleotide sequence SEQ ID NO 48.

25. Genetic sequence according to claim 14, being the amino acid sequence SEQ ID NO 49.

26. Genetic sequence according to claim 14, being the nucleotide sequence SEQ ID/NO 50.

27. Genetic sequence according to claim 14, being the amino acid sequence SEO ID NO 51.

28. Genetic sequence according to claim 14, being the nucleotide sequence SEO ID NO 52.

29. Genetic sequence according to claim 14, being the amino acid sequence SEQ ID NO 53.

30. Genetic sequence according to claim 14, being the nucleotide sequence SEQ ID NO 54.

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